

**STATEMENT OF WORK
FOR FENCE CONSTRUCTION
AT
SMOKY HILL ANG RANGE
SALINA, KS**

SCOPE: The work shall consist of the removal of existing fence and the construction of new barbed wire fence at Smoky Hill ANG Range. Project consists of removal and installation of approximately 988 rods of fence.

LOCATION: The site of the work is located at Smoky Hill ANG Range, which is located approximately 13 miles west of Salina, Kansas.

PERFORMANCE PERIOD: Project can be started as soon as the Notice To Proceed has been received. The project shall be completely finished within 59 days of the notice to proceed date.

RESPONSIBILITY: Submission of a quote by a contractor shall be accepted as prima-facia evidence that the contractor has examined the specifications and location of the work to be accomplished and has satisfied himself as to the nature and location of work and all matters which can in anyway affect the work or cost thereof under any resultant contract. Any failure by the contractor to acquaint himself with all available information will not relieve him from successfully performing all the work to be done to complete the job. The quote submitted shall be firm without request for additional funds for extras to complete the project.

The removal and installation of the fence shall be done in 3 stages. All fence removal and fence construction at one stage must be completed prior to moving on to the next stage. This is required to maintain boundary security to the maximum extent possible. Prior to beginning any work on site, the contractor will contact 1-800-DIG-SAFE (1-800-344-7233) to ensure that the planned work will not impact any underground utilities. The point of contact at Smoky Hill ANG Range for this project is Galen Wiens (316) 759-8514.

SPECIFICATIONS: All removed fencing materials will be delivered to two separate locations. Reusable fencing materials will be delivered to a designated area by the Headquarters building. Fencing materials that are not reusable will be delivered to the EOD area located in the middle section of the Range. Access into the EOD area will only be permitted when escorted by Range personnel.

All fence materials shall be new. Barbed wire shall be 2-point (spaced 5 inches apart), 12 ½ gauge, galvanized, American made, strung as five line wires spaced approximately equal distance apart. The top wire shall be 48 inches above ground level and the bottom wire approximately 12 inches above ground level.

Staples shall be of 9-gauge wire with a minimum length of 1½ inches for softwoods and a minimum of 1 inch for hardwoods. Staples should be driven diagonally with the wood grain to avoid splitting and loosening of the staples. Space should be left between the staple and the post to permit movement of the wire. Wires shall be attached to steel posts by use of manufacturer's special designed clips (crimped on both sides of the post) or by two turns of 14 gauge or heavier, galvanized wire.

Line posts shall be set at a maximum of 16 ½ feet apart and will be studded steel "T" posts (1.33lb. /ft.), American made and a minimum of 6 feet long. The top strand of barbed wire shall be placed between the first and second lug on the T post. All corner, end assembly, pull assembly and brace posts shall be wooden with a minimum top diameter of 6 inches. Wood posts may be untreated osage-orange (Bois d'Arc), red cedar, black locust or pressure treated commercially available posts. Posts shall have a minimum length of 8 feet and be set at least 3 ½ feet in the ground. Horizontal bracing is required at all corner, pull and end assemblies in the fence line. Horizontal brace members shall be standard weight galvanized steel pipe of 1 ½ inch diameter, installed at least 36 inches above ground level and at least 8 inches below the top of the post. The cross brace should be at least 7 feet in length. The tension wire shall consist of two complete loops of 9 gauge smooth wire or 12-½ gauge double strand, twisted barb or smooth wire, with an in-line strainer to provide adequate tension. The tension wire shall extend from a point approximately 6 inches below the top of the brace post to near the ground level of the post being braced. Pull assemblies (line bracing) shall be spaced at intervals not to exceed 1320 feet (80 rods) in straight sections of fence. Wood posts shall be used on breaks in ground elevation and/or in wet areas. When fencing is installed across small depressions or watercourses, the following methods will be used:

- (1) If the fence wire is installed parallel to the ground surface, wood posts shall be set where fence is subject to upward pull.
- (2) If the wire fence is installed with the top wire straight across the depression, extra length posts shall be used to allow normal post embedment and line wire will be added to fill the space between the bottom of the fence and the ground.

Gates shall be the length(s) specified on the attached picture. Gates shall be constructed of 14 gauge heavy-duty welded tube (round or square) construction. Round tube minimum is 1 5/8 inch outside diameter. Square tube minimum is 1 ½ inch on all sides. Gates shall have 6 horizontal bars and must use "bolt and nut" type fasteners for connecting to the wood posts. Gate hinges must be installed facing each other so that the gate cannot be lifted off the hinges. Gates must be able to swing both ways to allow for easier access.

CONTRACT SPECIFICS: The new fence will be placed no farther than five feet from the existing fence or at the designated right-of-way distance from the middle of the road. Fencing materials will not be attached to over head power poles.

Brace pipes that were used to construct the existing fence may be reused to construct the new fence as long as they are straight and not rusted.

SMOKY HILL ANG RANGE

LEASE UNIT 75
SOUTH SIDE
313 RODS

Wood

Brace

2 Woods

Brace

2 Woods

Brace

Wood

Brace

SMOKY HILL ANG RANGE

LEASE UNIT 75
EAST SIDE
320 RODS

Corner

Wood

Brace

Wood

Brace

2 Woods

2 Woods

Wood

Brace

Brace and
Rehang Gate

SMOKY HILL ANG RANGE

LEASE UNIT 74C/84
EAST SIDE
355 RODS

3 Woods

Brace

2 Woods

H Brace

Wood

Wood

Wood

3 Woods

Wood

Brace

Brace

Wood

Corner

Corner

Corner

Corner